BBA

Biomembranes

Vol. 1107, 1992

Cumulative Contents

Regular Papers

Sarcoplasmic reticulum from rabbit and winter flounder: temperature-dependence of protein conformation and lipid motion
N. Vrbjar, K.T. Kean, A. Szabo, L. Senak, R. Mendelsohn and K.M.W. Keough (Canada, USA) 1

Binding of substance P to monolayers and vesicles made of phosphatidylcholine and/or phosphatidylserine
H. Duplaa, O. Convert, A.-M. Sautereau, J.-F. Tocanne and G. Chassaing (France) 12

Behaviour of a glycosphingolipid with unsaturated fatty acid in phosphatidylcholine bilayers
D. Singh, J.H. Davis and C.W.M. Grant (Canada) 23

Inhibition of gramicidin channel activity by local anesthetics
T.R. Bridal and D. Busath (USA) 31

Isoprenoid modification of proteins distinct from membrane acyl proteins in the prokaryote *Acholeplasma laidlawii*
S. Nyström and Å. Wieslander (Sweden) 39

Effects of lung surfactant proteolipid SP-C on the organization of model membrane lipids: a fluorescence study
A.D. Horowitz, B. Elledge, J.A. Whitsett and J.E. Baatz (USA) 44

Lateral conductance parallel to membrane surfaces: effects of anesthetics and electrolytes at pre-transition
A. Yoshino, T. Yoshida, H. Okabayashi, H. Kamaya and I. Ueda (Japan, USA) 55

Effects of alkyl glycosides incorporated into liposomes prepared from synthetic amphiphiles on their tissue distribution in Ehrlich solid tumor-bearing mice
Y. Daicho, S. Okada and R. Goto (Japan) 61

Ontogeny of proximal colon basolateral membrane lipid composition and fluidity in the rabbit
S.M. Schwarz, A.S. Lambert and M.S. Medow (USA) 70

Low-temperature phase behaviour of the major plant leaf lipid monogalactosyldiacylglycerol
P.W. Sanderson and W.P. Williams (UK) 77

Streptozotocin diabetes and sugar transport by rat ileal enterocytes: evidence for adaptation caused by an increased luminal nutrient load
E.S. Debnam and G. Chowrimootoo (UK) 86

Modelling of interaction of basic lipophilic ligands with cytochrome *P*-450 reconstituted in liposomes. Determination of membrane partition coefficients of *S*-(−)-nicotine and *N,N*-diethylaniline from spectral binding studies and fluorescence quenching
M. Vermeir, N. Boens and K.P.M. Heirwegh (Belgium) 93

Specific drug binding by purified lipid-reconstituted P-glycoprotein: dependence on the lipid composition
T. Saeki, A.M. Shimabuku, K. Ueda and T. Komano (Japan) 105

The effect of cholesterol and epicholesterol on the activity and temperature dependence of the purified, phospholipid-reconstituted ($Na^+ + Mg^{2+}$)-ATPase from *Acholeplasma laidlawii* B membranes
R. George and R.N. McElhaney (Canada) 111

Avidin-induced lysis of biotinylated erythrocytes by homologous complement via the alternative pathway depends on avidins ability of multipoint binding with biotinylated membrane
V.R. Muzykantov, M.D. Smirnov and G.P. Samokhin (Russia) 119

Proton potential-dependent polyamine transport by vacuolar membrane vesicles of *Saccharomyces cerevisiae*
Y. Kakinuma, N. Masuda and K. Igarashi (Japan) 126

NADH-activated cell-free transfer between Golgi apparatus and plasma membranes of rat liver
M. Rodriguez, P. Moreau, M. Paulik, J. Lawrence, D.J. Morré and D. Morré (USA) 131

Vanadium induced Cl^--secretion in rabbit descending colon is mediated by prostaglandins
H. Plass, M. Roden, H. Wiener and K. Turnheim (Austria) 139

Vanadate-sensitive phosphatidate phosphohydrolase activity in a purified rabbit kidney Na,K-ATPase preparation

H.G.P. Swarts, M. Moes, F.M.A.H. Schuurmans Stekhoven and J.J.H.H.M. De Pont (Netherlands) 143

Trans-potassium effects on the chloride/proton symporter activity of guinea-pig ileal brush-border membrane vesicles
M. Vasseur, M. Caüzac, R. Frangne and F. Alvarado (France) 150

Effect of sympathetic de-activation on thermogenic function and membrane lipid composition in mitochondria of brown adipose tissue
M. Goubern, M.-F. Chapey, C. Senault, M.-C. Laury, J. Yazbeck, B. Miroux, D. Ricquier and R. Portet (France) 159

Lipid–drug interaction: a structural analysis of pindolol effects on model membranes
A. Colotto, P. Mariani, M.G. Ponzi Bossi, F. Rustichelli, G. Albertini and L.Q. Amaral (Italy, Brazil) 165

The Na^+–Ca^{2+} exchanger activity in cerebrocortical nerve endings is reduced in old compared to young and mature rats when it operates as a Ca^{2+} influx or efflux pathway
L.M.T. Canzoniero, A. Rossi, M. Taglialatela, S. Amoroso, L. Annunziato and G. Di Renzo (Italy) 175

Ion channel formation by duramycin
T.R. Sheth, R.M. Henderson, S.B. Hladky and A.W. Cuthbert (UK) 179

Efflux of potassium ($^{86}Rb^+$) attenuates the volume-restorative effect of sodium-amino acid cotransport in rat renal inner medullary cells shrunken by exposure to hyperosmotic media
R.O. Law (UK) 186

Protein and lipid lateral diffusion in normal and Rous sarcoma virus transformed chick embryo fibroblasts
J.A. Boullier, J.S. Peacock, D.A. Roess and B.G. Barisas (USA) 193

Rapid Report

Exocytosis upon osmotic swelling in human epithelial cells
Y. Okada, A. Hazama, A. Hashimoto, Y. Maruyama and M. Kubo (Japan) 201

Regular Papers

The concentration dependence of the depolarization of yeast by monovalent cations
G.W.F.H. Borst-Pauwels, J.B.J. Van de Mortel and A.P.R. Theuvenet (Netherlands) 207

Protein kinase C stimulates dense tubular Ca^{2+} uptake in the intact human platelet by increasing the V_m of the Ca^{2+}-ATPase pump: stimulation by phorbol ester, inhibition by calphostin C
J. Tao, J.S. Johansson and D.H. Haynes (USA) 213

Lithium fluxes in *Paramecium* and their relationship to chemoresponse
M.V. Wright, M. Frantz and J.L. Van Houten (USA) 223

Transbilayer incorporation of 1-pyrenebutyltrimethylammonium by blood platelets and its application for analyzing changes in physicochemical properties of the membrane lipid bilayer induced by platelet activation
S. Kitagawa and M. Takegaki (Japan) 231

Involvement of histidine residues and sulfhydryl groups in the function of the biotin transport carrier of rabbit intestinal brush-border membrane
H.M. Said and R. Mohammadkhani (USA) 238

Merocyanine 540 as a probe to monitor the molecular packing of phosphatidylcholine: a monolayer epifluorescence microscopy and spectroscopy study
H. Yu and S.-W. Hui (USA) 245

A role for the transient increase of cytoplasmic free calcium in cell rescue after photodynamic treatment
L.C. Penning, M.H. Rasch, E. Ben-Hur, T.M.A.R. Dubbelman, A.C. Havelaar, J. Van der Zee and J. Van Steveninck (Netherlands) 255

The permeability and the effect of acyl-chain length for phospholipid bilayers containing cholesterol: theory and experiment
E. Corvera, O.G. Mouritsen, M.A. Singer and M.J. Zuckermann (Canada, Denmark) 261

Amphotericin B–phospholipid interactions responsible for reduced mammalian cell toxicity
W.R. Perkins, S.R. Minchey, L.T. Boni, C.E. Swenson, M.C. Popescu, R.F. Pasternack and A.S. Janoff (USA) 271

Reconstitution of the sarcoplasmic reticulum Ca^{2+}-ATPase: mechanisms of membrane protein insertion into liposomes during reconstitution procedures involving the use of detergents
D. Lévy, A. Gulik, A. Bluzat and J.-L. Rigaud (France) 283

Mediated Na^+-independent transport of L-glutamate and L-cystine in 1- and 2-cell mouse conceptuses
L.J. Van Winkle, D.F. Mann, H.G. Wasserlauf and M. Patel (USA) 299

A second phenazine methosulphate-linked formate dehydrogenase isoenzyme in *Escherichia coli*
J. Pommier, M.A. Mandrand, S.E. Holt, D.H. Boxer and G. Giordano (France, UK) 305

Induction of a Ca^{2+}-activated K^+ channel in human erythrocytes by mechanical stress
R.M. Johnson and K. Tang (USA) 314

Temperature-dependent effects of cholesterol on sodium transport through lipid membranes by an ionizable mobile carrier
S. Wehrli, C. Ramirez, J.-L. Kraus and M. Castaing (France) 319

Freeze-fracture analysis of the effects of intermediates of the phosphatidylinositol cycle on fusion of rough endoplasmic reticulum membranes
F.W.K. Kan, M. Jolicoeur and J. Paiement (Canada) 331

Cumulative Contents, Vol. 1107 343

Author Index 346